

DMITRIYEV, S.D.

Formation of columnar quartz in the Tandy rock crystal deposit.
Inform. sbor. VSEGEI no.9:107-114 '59. (MIRA 13:12)
(Tandy Valley--Quartz)

DMITRIYEV, S.D.

Some data on the geology and pegmatite formation with piezooptical minerals in the Akzhaylyau granitoid massif. Inform. sbor. VSEGEI no. 20:43-49 '59. (MIRA 14:1)

(Tarbagatay Range—Pegmatites)

(Tarbagatay Range—Crystals—Optical properties)

DMITRIYEV, S.D.

Granitic pegmatites in central Kazakhstan. Mat. VSECHI. Ob.
ser. no. 29:3-38 '60. (MIL. 14:7)
(Kazakhstan--Pegmatites)

DMITRIYEV, S.D.; VORONTSOV, N.N.

Crystal-bearing quartz veins of central Kazakhstan. Trudy
VSEGEI 57:65-93 '61. (MIRA 15:4)
(Kazakhstan--Quartz)

DMITRIYEV, Stepan Dmitriyevich; NAYMARK, S.L., red.; OVECHKIN, L.T.,
tekh. red.

[From one congress to another; figures and facts on the development of the economy and culture in Tyumen Province] Ot s"ezda k s"ezdu; tsifry i fakty o razvitii ekonomiki i kul'tury Tiimenskoi oblasti. Tiumen', Tiimenskoe knizhnoe izd-vo, 1961. 54 p.
(MIRA 16:3)

(Tyumen Province--Economic conditions)
(Tyumen Province--Culture)

DMITRIYEV, S.D.

Etching of micas. Inform. sbor. VSEGEI no. 55:105-109 '62.
(MIRA 17:1)

DMITRIYEV, S.S.

Wellston's and his deposits in the U.S.C.P. Trade VPS-083
11303-102 162 (MIRA 1832)

L 44194-66 EWT(1) GW

ACC NR: AP8016850 (N) SOURCE CODE: UR/0026/66/000/005/0119/0120

36
35
B

AUTHOR: Dmitriyev, S. D. (Moscow)

ORG: none

TITLE: Travel guide on Soviet Seas: Seas of the USSR

SOURCE: Priroda, no. 5, 1966, 119-120

TOPIC TAGS: oceanology, sea, meteorology, hydrology, fishing, industry, ocean tide, ocean storms, climatology, topography, seaweed, sea water, water traffic, ocean transportation

ABSTRACT: A book entitled "Seas of the USSR" and written by A. D. Dobrovol' skiy, Doctor of Geographical Sciences, and director of the Department of Oceanology of Moscow State University, and B. S. Zalogin, Fellow of the Moscow Construction Engineering Institute, is reviewed here. The reviewer states that the book consists of four basic parts: a brief physical-geographic review of each of the fourteen Soviet seas; a general description of maritime industries, descriptions of each

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L 44194-66

ACC NR: AP6016850

Soviet maritime waterway basin, and a report on Soviet seacoastal resorts. Each sea is treated separately from the geographical, soil, and bottom topography, climatological, and meteorological viewpoints. The chemical composition and physical properties of the waters, storms and tidal characteristics, currents, and ice conditions are all described. The economic significance of the various seas: fishing, sea weed, petroleum, gas, chemical and salts industries, is analyzed in detail. The reviewer criticizes the authors for the scarcity of information given on the role of Soviet science in the study of Soviet seas for insufficient emphasis on recent works in this field, and some outdated economic information and some inaccuracies in the figures quoted.

[GC]

SUB CODE: 08, 05, 04, ~~10, 11~~ / SUBM DATE: none

aun

Card 2/2

DMITRIYEV, S.I., master

Manufacturing piston rings for compressors. Elek. i tepl. tiaga 2
no.8:24-25 Ag '58. (MIRA 11:9)

1.Elektrodepo Leningrad-Baltiyskiy.
(Piston rings) (Compressors)

GOLYNCHIK, Leonid Stepanovich; DMITRIYEV, Stepan Ivanovich; DUNENKOV, Vladimir Leonidovich; LUPKIN, Dmitriy Mikhaylovich; YAKOVLEV, D.V., insh., red.; BOBROVA, Ye.N., tekhn.red.

[Operation and repair of electric machinery on electric rolling stock] Eksploatatsiya i remont elektricheskikh mashin elektropedvishnogo sostava. Moskva, Gos.transp.shel-dor.izd-vo, 1959. 223 p. (MIRA 12:6)
(Electric locomotives) (Electric machinery)

DMITRIYEV, S.I., inzh. (Leningrad)

Chuck for turning brake beam pins. Elek.i topl.tsiaga
no.7:23-24 J1 '60. (MIRA 13:8)*
(Railroads—Brakes)

DMITRIYEV, S.I., inzh.

Efficient suggestion. Elek.i tepl.tiaga 4 no.1:25 Ja '60.
(MIRA 13:4)

1. Lokomotivnoye depo Leningrad-Baltiyskiy.
(Electric relays)

~~D~~MITRIYEV, S.

Dimitriyev, S. - "Coal in the mountains", (On the miners of the 'Stavropol'" Trust, outline), Stavrop. al'manakh, 4, 1948, p. 265-94.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

DMITRIYEV, S.I., otvetstvennyy redaktor; ROMANOVA, L.A., redaktor;
PROZOROVSKAYA, V.L., tekhnicheskiiy redaktor.

[Problems of processing and quality of coal in the Kuznetsk
Basin] Voprosy pererabotki i kachestva uglei Kuznetskogo
basseina. Moskva, Ugletekhizdat, 1954. 77 p. (MLRA 8:1)

1. Stalinsk. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy
institut.

(Kuznetsk Basin--Coal mines and mining)

DMITRIYEV, S.

DMITRIYEV, S., inzhener; STETSSENKO, Ya., inzhener.

Time schedule for rapid execution of preparatory mine work. Mast.
ugl. 3 no.7:11-13 JI '54. (MLEA 7:7)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Coal mines and mining)

DMITRIYEV, S.I.

✓ 4756. WORKING OF THICK COAL BEAMS BY A COMBINED SYSTEM, USING A
FLEXIBLE METAL REVENIENT. Dmitriyev, S.I., Zuprov, S.I. and Filovarov, A.
F-1 (Ugol (Coal, Moscow), Feb. 1956, 5-11). An illustrated description is given
of experimental work in seams dipping at 35 to 60° to the horizontal in Kurass.
(L).

(2)

DMITRIYEV, S. I. (

"Research Work of the Coal Institute ⁱⁿ of New Effective Conveying Systems.

report presented at a Sci.-Tech. Conf. on Improving the Exploitation System
in coal Beds, called by Mining Inst, AS USSR, at Prokop'yevsk 20-22 Jan 1958.
(Vest. Ak Nauk SSSR, '58, No.4, 105-7, author Lyakhov, G. M.)

DMITRIYEV, S.I., inzh.; OVINOV, M.I., inzh.

Effectiveness of using the combination mining system with flexible
roof support mining thick coal seams. Ugol' 35 no.8:15-18 Ag '60.
(MIRA 13:9)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Kuznetsk Basin—Coal mines and mining) (Mine timbering)

DMITRIYEV, S.I., gornyy inzh.; MILOVANOV, I.B., gornyy inzh.; KHVOSHCHESKIY,
N.M., gornyy inzh.

Using hydraulic mining methods and flexible roof support in the
experimental working of the "Moshchnyi" seam in the "Ziminka" Mine
no.3-4. Ugol' 35 no.9:6-9 S '60. (MIRA 13:10)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut i Vsesoyuznyy
nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi
uglya gidravlicheskim sposobom. (Kuznetsk Basin--Hydraulic mining) (Mine timbering)

DMITRIYEV, S.I.; IVANOVA, K.A.; LINDENAU, N.I.; NOVIKOV, V.M.;
BIRYUKOV, R.A., prof., retsenzent; VOLKOVA, V.A., red.
izd-va; BOLDYREVA, Z.A., tekhn. red.

[Economic efficiency of mining systems] Ekonomicheskaya
effektivnost' sistem razrabotki. Moskva, Gosgortekhnizdat,
1963. 223 p. (MIRA 17:1)

DMITRIYEV, S.I., inzh.; AL'KHIMOVICH, V.P., inzh.; KARTASHEV, Yu.M.,
inzh.; SHMAKOV, A.P., tekhnik

Mechanization of mining coal under a flexible metal covering.
Ugol' 39 no.8:62-65 Ag '64. (MIRA 17:10)

DMITRIYEV, S.I.; SHIROKOV, A.P.

Mining thick, steeply pitching seams at the Kuznetsk Basin
mines. Fiz.-tekhn. probl. razrab. pol. iskop. no.4:85-92 '65.
(MIRA 19:1)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut,
Prokop'yevsk. Submitted Jan. 21, 1965.

DMITRIYEV, S.I., inzh.

Culverts with a conical section in the headwall. Avt.dor. 19
no.11:27 N '56. (MIRA 10:10)
(Culverts)

DMITRIYEV, S.I.

Solution of vital production problems is the basis of the work
of the Institute. Ugol' 37 no.3:7-10 Mr '62. (MIRA 15:2)

1. Direktor Kuznetskogo nauchno-issledovatel'skiy ugol'nyy
institut.

(Kuznetsk Basin--Coal mines and mining)

DMITRIYEV, S.I., inzh.; ZAPREYEV, S.I., inzh.

Studying the efficient stope parameters in a combination
mining system with flexible metallic roofing. Ugol' 36
no.12:9-13 D '61. (MIRA 14:12)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Kuznetsk Basin--Coal mines and mining)

KRASOTSKIY, A.V.; KOZLOV, L.I.; AZBEL', I.Ya.; DMITRIYEV, S.K.; TITEL'MAN,
I.G.; TIMONIN, S.V.

Utilizing the heat of compressed gas to heat boiler feed water.
Suggestion by A.V.Krasotskii and others. Prom.energ. 11 no.4:23-25
Ap '56. (Waste heat) (Hot-water supply) (MIRA 9:7)

DMITRIYEV, S.I.

Model for the demonstration of mechanisms with link pairs of the first order. Trudy Sem.teor.mash. 12 no.46:40-45 '52. (MLRA 6:6)
(Links and link motion)

DMITRIYEV, S. M., Eng.

Experience with production-line, rapid-construction of stone-block dwellings.
Biul. stroi. tekhn. 9, No 17, 1952.

DMITRIYEV, S.N.

Dmitriyev, S.N. -- "Defining the Magnitude of the Power Reserve of an Energy System by the Method of Probability Analysis." Cand Phys-Math Sci, Moscow Aviation Inst, Moscow 1953. (Referativnyy Zhurnal--Matematika, Jan 54)

SO: SUM 168, 22 July 1954

DMITRIYEV, S.N.

[Eczema] Eczema. Moskva, Medgiz. 1953. 15 p. (MIRA 7:11)
(Eczema)

DMITRIYEV, S.N.

DERBANDIKER, M.O., kandidat meditsinskikh nauk; BAZULINA, T.N., ordinator;
GEL'MAN, A.N., ordinator; SMITRIYEV, S.H., ordinator; RABINOVICH,
T.N., ordinator; KUNDEL', L.M., ~~ordinator~~

Therapy of psoriasis in the balneological department of the Korolenko
Clinical hospital. Vest. ven. i derm. no.1:18-19 Ja-F '55. (MLRA 8:4)

1. Iz kozhnogo otdeleniya (zav.-K.A.Shmelev, konsul'tant - prof.
A.I.Kartamyshev) Moskovskoy klinicheskoy kozno-venerologicheskoy
bol'nitsy im. Korolenko (glav. vrach - zasluzhennyy vrach RSFSR
V.P.Nikolayev).

(PSORIASIS, therapy

balneother., results in Russia)

(BALNEOLOGY

balneother. of psoriasis, results in Russia)

AUTHOR: Dmitriyev, S.N., Engineer 135-58-7-16/20

TITLE: On the Revision of GOST 2523-51 "Steel Electrodes for Arc Welding and Fusing" (K peresmotru GOSTa 2523-51 "Elektrody stal'nyye dlya dugovoy svarki i naplavki")

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 7, p 41 (USSR)

ABSTRACT: According to experience obtained at the Magnitogorsk Plant of Metal Products and Metallurgy, suggestions are made concerning changes of GOST 2523-51, including production of electrodes and eccentricity tolerances of electrode coatings.

ASSOCIATION: Magnitogorskiy metizno-metallurgicheskiy zavod (Magnitogorsk Plant of Metal Products and Metallurgy)

1. Welding electrodes---Standards 2. Arc welding---Electrodes

Card 1/1

USPENSKAYA, N.V.; ISTRATOV, V.N., kand.tekhn.nauk; DMITRIYEV, S.N.;
SUROV, M.G.; BOGATYREV, O.M.; KUPALYAN, S.D., kand.tekhn.
nauk; KAMENSKIY, A.V.; KAMENSKIY, A.V.; TIMOFEYEV, A.B.;
KHUKHRIKOV, S.S.; ANTONOVA, S.D., izdat.red.; ZUDAKIN, I.M.,
tekhn.red.

[Collection of problems pertaining to the theoretical
principles in electrical engineering] Sbornik zadach po
teoreticheskim osnovam elektrotekhniki. Pod red. V.N.Istra-
tova i S.D.Kupaliana. Moskva, Gos.izd-vo obor.promyshl.,
1959. 124 p. (MIRA 13:1)

1. Moscow. Aviationnyy institut imeni Sergo Ordzhonikidze.
(Electricity--Problems, exercises, etc.)

Page 8/23

Dmitriyev, S. P.
USSR/Radiophysics - Radio-wave Reception, I-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35343

Author: Konyayev, K. V., Dmitriyev, S. P.

Institution: None

Title: Investigation of Cathode Detector

Original

Periodical: Sb. statey nauch. stud. o-va Mosk. energ. in-t., 1955, No 8,
184-195

Abstract: None

Card 1/1

DMITRIYEV, S.P., inzh.; VYZHIGIN, G.V., inzh.

Standardized reinforced concrete products for multistoried industrial buildings with girder ceilings. Prom.stroi. 8
no.7:11-14 '60. (MIRA 13:7)

1. Proyektnyy institut gipromoloko.
(Precast concrete---Standards)
(Factories---Design and construction)

16.8000(1132,1329,4)

27659

S/024/61/000/004/017/025

E031/E135

AUTHOR: Dmitriyev, S.P. (Leningrad)

TITLE: On the invariance of a system in the case of random action.

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, No.4, 1961, pp.149-152

TEXT: The conditions for the invariance of a system to an accuracy of ϵ for random action are established. If the mathematical expectation of a random action $x(t)$ is non-zero, the invariance of the system with respect to the mathematical expectation, which is a known regular function of the time, can be obtained by one or other of the methods of the theory of invariance (Ref.1: N.N. Luzin, P.I. Kuznetsov, DAN SSSR, 1946, V.51, No.4; 1946, V.51, No.5; 1951, V.80, No.3. Ref.2: V.S. Kulebakin, DAN SSSR, 1949, Vol.68, No.5. Ref.3: A.G. Ivakhnenko, Elektroavtomatika, GITL USSR, Kiev, 1957). Hence in the present paper it is assumed that the mathematical expectation is zero. A statistical estimate is introduced as a measure of the invariance which characterises the degree of independence of the

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On the invariance of a system in the ... ²⁷⁶⁵⁹ S/024/61/000/004/017/025
E031/E135

error in the system from the action; this is the mean square of the error $\delta^2(t)$. Invariance to an accuracy of ϵ requires that

$$\delta^2(t) \leq \epsilon^2, \quad t \geq T \quad (1.4)$$

To determine the conditions for this invariance, this equation is written in terms of the transfer function $\Phi(p)$ of the system. Then $1 - \Phi(p)$ is expanded in a series of partial fractions, assuming that the transfer function has only simple roots. Substitution in the above invariance equation results in a quadratic form whose geometrical significance is discussed. If we regard the system as a point in an n -dimensional space whose coordinates are the numerators in the partial fraction expansion, then the system satisfies the above invariance condition if it lies within or on the n -dimensional region represented by the above quadratic form. The theory is illustrated by an example. There are 1 figure and 4 Soviet-bloc references.

SUBMITTED: April 11, 1961

Card 2/2

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S/120/62/000/004/012/047
E039/E420

24 6730

AUTHORS: Boyko, S.N., Barabash, L.Z., Gerasimov, A.B.,
Dmitriyev, S.P., Zheravov, V.G., Royfe, I.M.,
Stekol'nikov, B.A.

TITLE: Voltage supplies of the deflection and beam
suppression plates of the ion-beam-input system
of the proton synchrotron chamber

PERIODICAL: Priory i tekhnika eksperimenta, no.4, 1962, 76-80

TEXT: For the accurate injection of the beam into the
acceleration chamber the correct magnitude and sequence of
voltages must be applied to the three pairs of deflector and
suppressor plates or condensers described in the previous abstract
(70-75, of the present journal). The form and values of the
voltage on the deflector and suppressor plates is shown in Fig.1.
The voltage to the plates is supplied from an H.T. unit of
 ± 42 kV stable to better than $\pm 0.2\%$ per day. As the beam orbit
passes between the third pair of deflector plates the residual
voltage on the plates after injection must be reduced to less than
 ± 0.3 kV after 1.5μ sec from the end of the voltage pulse.
A block diagram of the H.T. unit is given, the switching being
Card 1/3

S/120/62/000/004/012/047

Voltage supplies of the deflection ... E039/E420

accomplished by means of thyratrons, the trigger voltage of which determines the residual voltage. The latter is reduced further by means of a compensating circuit to not more than 100 V during the $1.5 \mu\text{sec}$ after the end of the voltage pulse and decays in a period of 5 to $7 \mu\text{sec}$. The value of the residual voltage on the suppressor plates must not exceed 150 V for a suppression potential of 30 kV. Block diagrams of the circuits are given. There are 7 figures.

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)
Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute for Electrophysical Apparatus GKAE)

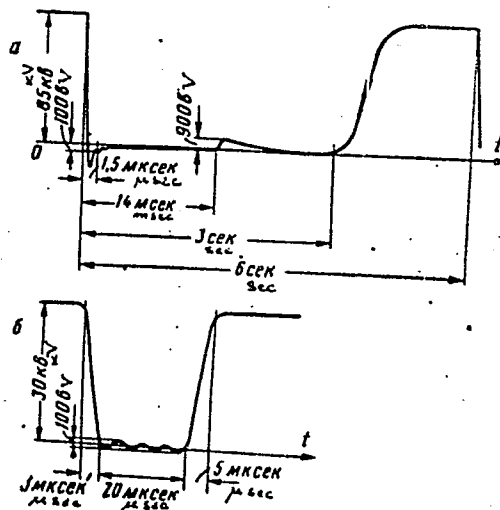
SUBMITTED: March 16, 1962

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Voltage supplies of the deflection ... S/120/62/000/004/012/047
E039/E420

Fig.1.

- a - shape of the voltage on the deflector plates,
- б - shape of the voltage on the suppressor plates.



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L 41182-65

ACCESSION NR: AP5004677

17

XUPERSHIDT (Moscow)--"On Determination of the Criteria of Accuracy for Measurement Devices"; S. M. MANDEL'SHTAM (Leningrad)--report on a new criterion of accuracy of measurement instruments; P. F. PARSHIN (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DMITRIYEV, G. Ya. DOLGINTSEVA and A. A. IGNATOV (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-stationary random signals and interference; I. B. CHELPANOV--"Calculation of the Dynamic Characteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUEKTOV (Leningrad)--"Optimum Periodic Correction in the Measurement of Continuous Signals"; S. P. ADAMOVICH (Moscow)--"Analysis and Construction of Devices for Correction of Non-linearity and Scaling for Unitary Codes"; G. V. GORBELOV (Taganrog)--"A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; M. A. ZEMEL'MAN (Moscow)--"Analog-Digital Voltage Converter with Automatic Error Correction"; B. N. MALINOVSKIY, V. S. KALININ and I. A. YANOVICH (Kiev)--"Automatic Monitoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment"; V. P. PEROV (Moscow)--"Operational Cybernetics as an Independent Scientific Specialization"; Ye. N. GIL'BO (Leningrad)--

Card 2/4

L 41182-65

ACCESSION NR: AP501677

Graphic Recordings For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOGILEVER and S. S. SOKOLOV (Leningrad)--"On a Method for Reducing Excess Information"; T. V. NIKOLAYEVA (Leningrad)--"A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. BULIS (Moscow)--"Optimization of the Transmission of Telemetry Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow)--"On a Statistical Approach to the Detection of Events in Automatic Inspection"; M. I. LANIN (Leningrad)--"Method for Calculating the Holding Time of Communications in a Centralized Inspection System or Constant Servicing Time"; O. N. BRONSHTSYN, A. L. RAYKIN and V. V. RYKOV (Moscow)--"On a Single-Line Mass Service System with Losses"; V. M. SHLYANDIN (Penza)--report on circuit designs for direct compensation electrical digital measuring instruments; A. N. KOMOV (Novocherkassk)--report on a new method for compensation of digital bridges; M. N. GLAZOV (Leningrad)--report on the problem of voltage-to-angular rotation conversion; V. S. GUTNIKOV (Leningrad)--"Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SYROPYATOVA and R. R. KHARCHENKO (Moscow)--report on the determination of the ampli-

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ACCESSION NR: AP5004677

phase meters; A. V. TRIKHANOV, I. G. SMYSHLYAYEV, N. I. SABLIN, V. M. RAZIN and V. A. GORBUNOV (Tomsk)--report on a device for automatic processing of the measurements of vibration amplitude of pneumatic hammers; L. K. RUKINA and V. G. KNOBBIN (Leningrad)--report on the development of a digital compensator for measuring etc.; N. B. DALIKINA (Leningrad)--report on a method for constructing pickups for gas analysis; Ye. M. KARPOV, V. A. BRAZHNIKOV and B. Ya. LUKHTSINICH (Kuybyshev)--reports on analysis and recording of boring speeds; Yu. V. PSHENICHNIKOV (Kuybyshev)--"A High Speed Voltage-to-Digital Code Converter for ac Pickups"; G. P. VIKHROV and V. K. ISAYEV (Vilna)--"A Highly Accurate Digital Peak-to-Peak Voltmeter"; and S. M. PERLIN (Leningrad)--"A Low Level Analog-Digital Voltage Converter."

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, EC

NO REF SOV: 000

(OTHER: 000

JPRS

DMITRIYEV, S.P. (Leningrad); DOLGINTSEVA, G.Ya. (Leningrad); IGNATOV, A.A.
(Leningrad)

Solution of some nonsteady-state problems in optimum filtration.
Izv. AN SSSR Tekh. kib. no.1:169-181 Ja-F '65.

(MIRA 18:4)

~~15050-66~~ ~~EMT(A)/FSS-2~~

ACC NR: AP6002154

(A)

SOURCE CODE: UR/0280/65/000/006/0114/0120

AUTHOR: Dmitriyev, S. P. (Leningrad); Dolgintseva, G. Ya. (Leningrad);
Ignatov, A. A. (Leningrad)

39
63

ORG: none

TITLE: Optimal filtration of a specified-shape signal with a stationary random noise
as a background

6,44

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 6, 1965, 114-120

TOPIC TAGS: signal noise separation, signal detection

ABSTRACT: In an earlier authors' work (Izv. AN SSSR, Tekhnicheskaya kibernetika, 1965, no. 1), a method was suggested for determining the weight function of an optimal filter from a solution of an Euler differential equation; the latter belonged with a variational problem that had properly formulated boundary conditions for the case when the desirable signal $m(t)$ and noise $n(t)$ were described by differential equations which set the connections with the initial white noise $V_m(t)$ and $V_n(t)$. The present article applies the above method to solving the problem of optimal filtration

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L 15050-66

ACC NR: AP6002154

of the signal $q(t) = \sum_{i=1}^N U_i q_i(t)$ that has random coefficients U_i and noise $n(t)$ as a background; the filtration is described by the differential equation $w_n(p)n(t) = V_n(t)$, where $w_n(p) = \sum_{i=0}^k c_i p^i$, $p \equiv \frac{d}{dt}$, c_i are generally variable coefficients. The desirable signal and noise are not correlated. The method is easily generalized to cover problems with specified-shape input signals; in the unbiased-estimator problem, the Euler differential equation for the weight function χ of the filter part being optimized degenerates into an algebraic equation. In the biased-estimator problem, the form of solution of the integral equation for χ does not differ from that of the nonbiased-estimator solution. No singular cases arise in solving the optimum-filtration problem by the above method. Orig. art. has: 60 formulas.

SUB CODE: 09, 17 / SUBM DATE: 10Sep64 / ORIG REF: 002

Card 2/2

L 20749-66 EWT(d)/FSS-2

ACC NR: AP6010279

SOURCE CODE: UR/0103/66/000/003/0040/0047

AUTHOR: Dmitriyev, S. P. (Leningrad); Dolgintseva, G. Ya. (Leningrad); Ignatov, A. A. (Leningrad)

ORG: none

TITLE: Solution of the optimal filtration problem for random signals whose properties are varying at given instants

SOURCE: Avtomatika i telemekhanika, no. 3, 1966, 40-47

TOPIC TAGS: filtration, optimal filtration, optimal filter, Euler equation, random signal

ABSTRACT: A method is presented for determining the optimal filter for input signals consisting of the useful signal $m(\tau)$ and of the noise $n(\tau)$ which are random functions of time and whose statistical characteristics on the given intervals of time (t_0, t_1) , (t_1, t_2) , ..., (t_{N-1}, t_N) are different. These characteristics are described on every interval by given differential equations. The problem is reduced to determining the weighting function of the optimal filter in the form

$$g(t, \tau) = \sum_{k=1}^N g_k(t, \tau), \quad (1)$$

under the assumption that weighting function $g_k(t, \tau)$ is nonzero on every interval

Cord 1/2

UDC: 62-505

L 20749-66

ACC NR: AP6010279

of the sequence of intervals. An estimate $m^*(t)$ of the useful signal at the output of the filter is derived and the filtration error $\epsilon(t)$ is established. An expression for the variance $D_\epsilon(t)$ of the filtration error is formed, and the weighting function minimizing the variance $D_\epsilon(t)$ is sought. Determining the optimal weighting functions is reduced to the solution of a system of Euler's differential equations. Solutions of these equations contain a certain number of arbitrary constants as well as a certain number of parameters; a complete system of algebraic equations is derived for determining these parameters. The method is illustrated by an example. Orig. art. has: 40 formulas. [LK]

SUB CODE: 09/ SUBM DATE: 12May65/ ORIG REF: 002/ ATD PRESS: 4125

Card

2/2

L 46654-66 EWT(d)/EWP v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6021389

SOURCE CODE: UR/0103/66/000/006/0050/0060

AUTHOR: Dmitriyev, S. P. (Leningrad); Dolgintseva, G. Ya. (Leningrad); Ignatov, A. A. (Leningrad)

ORG: none

TITLE: Asymptotic stability of optimal filters

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 50-60

TOPIC TAGS: ¹⁴ optimal automatic control, control system stability, filter circuit, function analysis

ABSTRACT: The problem of the characteristics of an optimal filter weighting function $g(t, \tau)$ when $t \rightarrow \infty$ is considered. The fundamental assumption postulated by the authors consists in defining the useful signal $m(\tau)$ and the noise $n(\tau)$ by differential equations which link them with "white noise." It is demonstrated that regardless of the stability of the solutions of these differential equations, an optimal filter at $t \rightarrow \infty$ is stationary and asymptotically stable. Formulas are derived for the determination of the optimal weighting function for this particular case. A maximum limiting value for the error spread is found. An analysis is given for the problem of filter stability in cases in which the required conversion of the useful signal corre-

Card 1/2

UDC: 621.391.172

L 46654-66

ACC NR: AP6021389

sponds to the operator of an unstable system. Orig. art. has: 64 formulas.

SUB CODE: 12,09/ SUBM DATE: 30Dec65/ ORIG REF: 001/ OTH REF: 000

Card

2/2 *egh*

ACC NR: AP6029546 SOURCE CODE: UR/0103/66/000/009/0077/0084

AUTHORS: Dmitriyev, S. P. (Leningrad); Petrova, I. G. (Leningrad) 28

ORG: none

TITLE: Determination of an optimal multidimensional filter satisfying the condition of absolute invariance

SOURCE: Avtomatika i telemekhanika, no. 8, 1966, 77-84

TOPIC TAGS: optimal control, mean square error, electric filter

ABSTRACT: An application is given for the method of solution of nonstationary problems of optimal filtration discussed previously by S. P. Dimitriyev, G. Ya. Dolgintseva, and A. A. Ignatov (Resheniye nekotorykh nestatsionarnykh zadach optimal'noy fil'tratsii. Tekhnicheskaya kibernetika, No. 1, 1965). The purpose is to find a multidimensional optimal filter satisfying the condition of absolute invariance. In the analysis each input noise is assumed independent and given by unit intensity white noise $V_1(\tau)$ where $V_1(\tau) = w_1(p)n_1(\tau)$. The mean square filter error is given by

$$M[e^2(t)] = D_e(t) = \int_0^t \sum_{i=1}^N \xi_i^2(t, \tau) d\tau +$$

$$+ \sum_{i=1}^N \sum_{j=1}^{s-1} (-1)^{j+1} \xi_i^{(j)}(t, 0_-) \xi_j^{(j)}(t, 0_-) M[K_{ij} K_{ji}]$$

Card 1/2 UDC: 621.391.172

L 10442-67

ACC NR: AP6029546

where $\xi_i(t, \tau)$ is a weighting function that satisfies the invariance condition

$$\sum_{i=1}^N w_i(-p) \xi_i(t, \tau) = \delta(t - \tau).$$

The Euler equation for optimal filtration is given by

$$\xi_i(t, \tau) = w_i(p) \lambda(\tau)$$

where $\lambda(\tau)$ is determined from the differential equation

$$\sum_{i=1}^N w_i(-p) w_i(p) \lambda(\tau) = 0.$$

Two examples are considered, one dealing with a stationary problem in three dimensions, the other with an unsteady problem. The former analysis leads to the following error dispersion expression

$$D_e(t) = \lambda(t) = c_1 e^{p_1 t} + c_2 e^{-p_2 t}.$$

Orig. art. has: 33 equations.

SUB CODE: 09,13/ SUBM DATE: 18 Nov 65/ ORIG REF: 004/ OTH REF: 001

Card

2/2

VYZHIGIN, G. V., inzh.; DMITRIYEV, S. P.

Precast monolithic construction elements of multistoried plants
to be built in seismic regions. Prom. stroi. 38 no. 9:16-19 '60.
(MIRA 13:9)

1. Gipromoloko (for Dmitriyev).
(Earthquakes and building)
(Precast concrete construction)

Y
DMITRIEV, S.S.

DMITRIEV, S.S. Talgar, glavnaia vershina Zailiiskogo Alatau, bliz goroda
Alma-Ata (byvsch. Vernyi). Tashkent, 1927.

DLC: Unclass.

SO: LC, Soviet Geography, Part II, 1951/Unclassified.

DNITATOV, S. SI.

"Colloidal-Chemical Evaluation of the Level
of Cultivation of Sod-Podzolic Argillaceous
Soils." Thesis for degree of Cand. Agricultural
Sci. Sub 1 Jun 49, Soil Institute V. V.
Dokuchayev, Acad Sci USSR.

Summary 82, 18 Dec 52, Dissertations Presented
for Degrees in Science and Engineering in Moscow in
1949. From Vechernyaya Moskva. Jan-Dec 1949.

DMITRIYEV, S.S. [Dmytriyev, S.S.]

Tractor mounted loader. Mekh. sil' hosp. 9 no. 6:20-22 Ja '58.
(MIRA 11:7)

1. Brigadir traktornoj brigadi Avdiiv's'koi mashinno-traktornoj
stantsii, Stalin'skoi oblasti.
(Loading and unloading)

DMITRIYEV, S.S., starshiy nauchnyy sotrudnik

Effectiveness of organic-mineral fertilizer mixtures applied to winter wheat as compared with other methods of combining organic and mineral fertilizers. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:15-20 '62. (MIRA 17:1)

1. Ivanovskaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya.

DMITRIYEV, S.S., starshiy nauchnyy sotrudnik

Effect of organic-mineral fertilizers and nitrogen supplements
on the effectiveness of the band placement of granulated super-
phosphate for winter rye. Sbor. nauch. trud. Iven. sel'khoz.
inst. no.21:91-102 '63. (MIRA 18:5)

DMITRIYEV, S.V.

112-3-6054

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,
Nr 3, p. 145 (USSR)

AUTHOR: Dmitriyev, S. V.

TITLE: Device for Attaching Handles to Electric Irons
(Proposed by I. A. Barabanov) [Prisposobleniye dlya
privertyvaniya ruchki k elektroutyugu]

PERIODICAL: Sb. rats. predlozheniy. M-vo elektrotekhn. prom-sti
SSSR, 1955, Nr 55, pp. 26-28

ABSTRACT: Bibliographic entry.

ASSOCIATION: Ministry of the Electrical Industry of the USSR
(M-vo elektrotekhn. prom-sti SSSR)

Card 1/1

DMITRIYEV, S.V.

123-1-725

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,
Nr 1, p.110 (USSR)

AUTHOR: Dmitriyev, S.V.

TITLE: Two-Face Machine-tool for Counterboring Wooden Handles
for Electric Iron (V.V. Knyazev Proposal) (Dvustoronnyy
stanok dlya zenkovki derevyannoy ruchki elektroutyuga)
(Predlozheniye V.V. Knyazeva).

PERIODICAL: Sbornik: ratsional'n. predlozheniy, Minist-vo elektrotekhn.
promysh-sti SSSR, 1955, Nr 55, pp.29-30.

ABSTRACT: The two-sided simplified milling machine for counterboring
both ends of wooden handles for electric iron is described.
Since the introduction of this machine labor productivity
has more than tripled. This machine may be used for other
similar work.

Ya.A.F.

Card 1/1

D. MITRIYEV, S.V.

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,
Nr 2, p.154 (USSR)

112-2-3571

AUTHOR: Dmitriyev, S.V.

TITLE: A Tracer Device for Milling the Edges of Electric-
Iron Base Plates (Kopirnoye primeneniye dlya
frezerovaniya bokovykh graney podoshv elektroutyugov).

PERIODICAL: Inform.-tekhn. M-vo elektrotekhn. prom--sti SSSR;
1955, Nr 83, pp.8-11

ABSTRACT: A tracer device with a capacity of 450 to 500 base
plates every eight hours has been adopted at the
Yaroslav electromechanical plant for milling the edges
of electric-iron base plates. The horizontal milling
machine completely mills four iron base plates per
pass. Sketches of the device and a description of the
milling technique are given.

I.V.I.

Card 1/1

DMITRIYEV, S.V.

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,
Nr 2, p.154 (USSR) 112-2-3572

AUTHOR: Dmitriyev, S.V.

TITLE: A Die for Punching Holes in Electric-Flat Iron Casings
(Shtamp dlya vyrubki otverstiy v kozhukhe elektricheskogo
utyuga).

PERIODICAL: Sb. rats. predlozh. M-vo elektrotekhn. prom-sti SSSR,
1956, Nr 2 (60), p.16

ABSTRACT: At the Yaroslavl¹ electromechanical plant one die was
being used to punch 10 mm holes in an electric iron casing,
while another punched two shaped holes in it. A die has
now been adopted to punch four holes simultaneously.

P.B.D.

Card 1/1

DMITRIYEV, S.V.; YEGOROV, G.A.; KUZ'MIN, G.A.; MITROPANOV, I.Ya.

Position pulse-phase programmed control system. Trudy KAI no.78:11-17
'63. (MIRA 18:10)

ACC NR:

AR6031074

SOURCE CODE: UR/0277/66/000/007/0053/0053

AUTHOR: Dmitriyev, S. V.

TITLE: Calculating clutches with permanent magnets for small angular rotational velocities

SOURCE: Ref. zh. Mashinostr mat konstr i raschet detal mash. Gidropr, Abs. 7.48.364

REF SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 87, 1965, 115-119

TOPIC TAGS: clutch, electromagnetic clutch, angular rotation, rotation, rotation velocity

ABSTRACT: The principle of an arrangement of synchronous shielded clutches with permanent magnets is described and the fields of their application is indicated. An analysis is made of the results of investigations of a magnetic system, consisting of a two-pole permanent magnet. The investigations show that the transmitted momentum and the characteristics of the sleeve joint depend considerably on the shape of the poles. For the given dimensions of the clutch (magnet length and axial length) and the rated transmitted torque the optimum shape of the pole systems

Card 1/2

UDC: 621.825.001.24

ACC NR: AR6031074

is found with a minimum size of the permanent magnet and constant angles of mismatch. From the results it appears that the shape of the curve is determined by the value of the gap and configuration of the pole system. Relationships are derived between the shape and dimensions of the magnet, as well as between the shape and size of the pole plug. The effects of shielding on the static moment for various magnetic gaps and the effect of the rotational velocity of the clutch on the shift angle of the poles have been established. Energy equations are derived for the magnetic field in the air gap and the value of the torque, transmitted by the clutch, is calculated. [Translation of abstract]

SUB CODE: 13/

Card 2/2

KAPEL'SON, L.M., inzh.; KUZNETSOV, N.I., inzh.; DMITRIYEV, S.Ye., inzh.;
ZAYDENTREGER, V.L., inzh.

Results of balance tests of the TP-230-6 boiler with vertical
preliminary furnaces operating on anthracite culm.
Energomashinostroenie 10 no.7:16-19 J1 '64. (MIRA 17:2)

ANDREYEV, Veniamin Aleksandrovich; DMITRIYEV, T., red.; SPORANE, V.,
tekhn. red.

[Riga and Tallinn] Riga - Tallin. Riga, Latviiskoe gos. izd-
vo, 1961. 73 p. (MIRA 15:2)
(Riga--Socialist competition)
(Tallinn--Socialist competition)

L 29277-66 -EWP(j)/EWT(m)/T RM
ACC NR: AF6019321

SOURCE CODE: UR/0079/65/035/008/1460/1463

AUTHOR: Gololobov, Yu. G.; Dmitriyeva, T. F.; Zinov'yev, Yu. M.; Soborovskiy, L. A.

ORG: none

TITLE: Vinyl esters of phosphorus acids. IV. Vinyl chlorophosphates

SOURCE: Zhurnal obshchey khimii, v. 35, no. 8, 1965, 1460-1463

TOPIC TAGS: phosphate ester, acetaldehyde, organic synthetic process

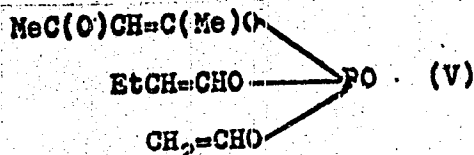
ABSTRACT: In the reaction of POCl_3 with acetaldehyde at 80-100° in an autoclave at about 2 atm in the presence of triethylamine, vinyl dichlorophosphate (I) or divinyl chlorophosphate (II) formed depending on the molar ratio of the initial substances: $\text{MeCHO} + \text{POCl}_3 + \text{Et}_3\text{N} \rightarrow \text{CH}_2=\text{CHOP}(\text{O})\text{Cl}_2$ (I); $2\text{MeCHO} + \text{POCl}_3 + 2\text{Et}_3\text{N} \rightarrow (\text{CH}_2=\text{CHO})_2\text{P}(\text{O})\text{Cl}$ (II). (I) had been prepared for the first time. By the reaction of (I) with dimethylamine, vinyl dimethylamidocnlorophosphate (III) was prepared. (I) could be used as a starting material for the synthesis of phosphates with two different α -alkenyl ester groups - e.g., the reaction of (I) with butyraldehyde in the presence of Et_3N yielded vinyl - butenyl-1 chlorophosphate (IV). By treating (IV) with acetylacetone in the presence of Et_3N , the compound

UDC: 545.185.547.361.21

Card 1/2

L 29277-66

ACC NR: AP6019321



was obtained, which is the first phosphoric acid ester with three different alpha-alkenyl groups that has ever been prepared. The reaction of POCl_3 with acetone proceeded with greater difficulty than that with acetaldehyde; isopropenyl dichlorophosphate $\text{CH}_2=\text{C}(\text{Me})-\text{POCl}_2$ (VI) formed with a small yield. The new compounds that have been synthesized had the following boiling points: I, $36-40^\circ/30$ mm; III, $60-66^\circ/1.0$ mm; IV, $57-61^\circ/2.0$ mm; V, $96-102^\circ/10-3$ mm; VI, $69-70^\circ/30$ mm. Orig. art. has: 3 formulas and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 16 Jul 64 / ORIG REF: 003

Card 2/2 CC

SOV/123-59-14-55098

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 14, p 86 (USSR)

AUTHORS: Dronov, M., Dmitriyev, V.

TITLE: A Cutting-Off Tool¹⁴ of the M.A. Dronov Design

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Orlovsk. ekon. adm. r-na, 1958, Nr 3, pp 37 - 38 ✓

ABSTRACT: The application of a cutting-off tool with a hard alloy plate is reported. The rear edge has a chamfer of 0.3 - 0.5 mm in width, perpendicular to the front edge, which is followed by the rear angle of 2 - 3°. The tests, carried out with center adjustment of the cutting edge when machining steel of the 30 KhGS grade with a speed of approximately 150 m/min and a feed of 0.2 - 1 mm/revolution, showed that the strength could be doubled. One figure.

A.D.L.

Card 1/1

DMITRIYEV, V.

Intelligent machines. Vypel 11 no.21:12-13 N '48.
(MIRA 12:9)

(Automation)

DMITRIYEV, V., gornyy inzhener.

Soviet miners on Spitzbergen. Mast.ugl. 2 no.8:19-22 Ag '53. (MLRA 6:8)
(Spitzbergen--Coal mines and mining) (Coal mines and mining--
Spitzbergen)

DMITRIYEV, V., inzhener.

Surface improvement of operating mines. Mast. ugl. 2 no. 12:3-5 D '53.
(MIRA 6:11)
(Coal mines and mining)

DMITRIYEV, I., inzhener.

Improving the utilization of advanced mining techniques. Mast. ugl. 3
no. 3:3-6 Hr '54. (MLRA 7:4)

(Coal mines and mining)

DMITRIYEV, V., inzhener.

Improving the surface of mines. Mast. ugl. 3 no. 11:21-23 N¹54.
(Coal mines and mining) (MLRA 8:3)

DMITRIYEV, V. inzhener

Full utilization of progressive mining techniques. Mast. ugl.
4 no.2:3-5 F '55. (MLRA 8:6)
(Coal mining machinery)

DMITRIYEV, V., inzhener.

On the road of technical progress. Mast.ugl.5 no.4:16-18 Ap '56.
(Coal mining machinery) (MLRA 9:7)

DMITRIYEV, V., inzhener.

Mechanization of roof control. ("Mechanized movable MFK timbering"
M.S. Fetisov; "Use of metal blocks of OK-150 'cut-off' timbering"
I.S. Senchenko.) Reviewed by V. Dmitriev. Mast.ugl. 5 no.6:31
Je '56. (MLRA 9:8)
(Mine timbering) (Fetisov, M.S.) (Senchenko, I.S.)

DMITRIYEV, V.

The main thing is efficiency. Okhr.truda i sots.strakh. no.4:79
0 '58. (MIRA 12:1)

1. Tekhnicheskij inspektor oblastnogo soveta profsoyuzov, g.
Izhevsk.

(Industrial hygiene)

DMITRIYEV, V., inzh.

Along paths of technological progress. Vest. ugl. 7 no. 7:26-27
Jl '58. (MIRA 11:8)

(Europe, Eastern--Coal mines and mining)
(Coal mining machinery)

DMITRIYEV, V., inzh.

Plastics serve the miner. Mast. ugl. 7 no.8:12-14 Ag '58.

(MIRA 11:9)

(Coal mines and mining--Equipment and supplies)
(Plastics)

DMITRIYEV, V., inzh.

Mine of 197.... Mast.ugl. 8 no.1:16-18 Ja '59.
(Coal mines and mining--Automation)

(MIRA 12:3)

BIRYULIN, I., arkhitektor; MAKHAN'KO, B., arkhitektor; DMITRIYEV, V.
inzh.; KOROBOV, S., agronom-ekonomist

Method of combined planning to be used in rural areas. Sel'.
stroil. 14 no.12:22-24 D '59. (MIRA 13:4)
(City planning)

DMITRIYEV, V.

By common efforts. Za rul. 20 no.11:4-5 N '62. (MIRA 15:11)

1. Predsedatel' pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu sovkhoza "Krasnoye znamya",
g. Taldom, Moskovskoy oblasti.
(Taldom—Technical education)

USSR/Soil Science. Tillage. Melioration. Erosion

J-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43885

Author : Yeliseyev, I., Dmitriyov V.

Inst : Not Given

Title : The Estuary Irrigation of Corn in Zvezdzh'ye

Orig Pub : Kulakuzo, 1956, No 9, 17-25

Abstract : Under the conditions prevalent at the Korgachevskaya
Machine and Tractor Station in Saratovskaya Oblast' (where
the annual precipitation is 250-360 mm.), estuary irrigation
on chestnut and light chestnut soils increased the green mass
yield of corn by 250 centners per ha. The methods of con-
structing these estuaries are discussed. --F.N. Sofiyeva

Cord : 1.1/1

DMITRIYEV, V.

PA 41/497107

USSR/Radio, Amateur

Medicine - Insects, Eradication

Mar 49

"Radio Club Pupils - Members of an Expedition,"
V. Dmitriyev, 1 p

"Radio" No 3

In 1948, caterpillars of the Siberian silkworm were discovered in Irkutsk and Angara forests. Valuable cedar and larch were in danger of destruction from these harmful pests which eat coniferous foliage. Ministry of Forest Economy dispatched a chemical expedition to fight these pests. Outstanding work of students of the

41/497107

USSR/Radio, Amateur (Contd)

Mar 49

"Irkutsk radio club helped forest aviation carry out the work."

41/497107

Dmitriyev, V.

107-9-16/53

AUTHOR: Dmitriyev, V.

TITLE: "KP-4" Type Radio Station (Radiostantsiya "KP-4")

PERIODICAL: Radio, 1957, # 9, p 23-26 (USSR)

ABSTRACT:

The "KP-4C" type is a stationary radio station for simplex, bilateral radio communications on RR lines working on 42.5 - 46.0 megacycles. It consists of a FM receiver and a AM/FM transmitter, power supply block, voltage stabilizer, antenna, remote control panel and microphone.

The power supply block is designed in two variants: either in form of a 200 w selenium rectifier for a.c. power supply of 40, 127 and 220 v, with ferro-resonance voltage stabilizer, or in the form of a vibrator block with a d.c. power supply from a 6 v storage battery.

The antenna for operating under stationary conditions is a vertical half-wave vibrator tuned to an average band-frequency of 44 megacycles. The antenna feeding is effected by a "PK-1" coaxial cable. The antenna for operating under moving conditions is a $\frac{1}{4}$ wave pin, tuned to 44 megacycles, too.

The output of the transmitter is 1.0 w in case of AM and 3.0 w in case of FM (the latter can be reduced to 1.0 w). The frequency deviation is automatically limited and does not exceed

Card 1/3

"XP-4" Type Radio Station

107-9-16/53

10 kilocycles. In case of AM, the modulation depth does not exceed 80 %. In case of non-linear distortions not exceeding 10 %, the output of the receiver is 1.0 w.

The communication distance between two "XP-4C" radio stations operating under stationary conditions is 15-20 km and that between a stationary "XP-4C" radio station and a portable "XP-4C" radio-station is 1.5-3.0 km. The transmission from the stationary to the portable radio station is effected by amplitude modulation and, in the inverse sense, by frequency modulation.

A "HKP-1" test-instrument is supplied with the radio station for tuning the transceiver from one frequency to another, for aligning stations in case of tube replacement and for many measurements necessary in case of adjusting and repairing radio-stations.

The design of this radio station is described in detail and shown by the circuit-diagram figure 1. It contains the following tubes: "6H3П", "6K4П", "6Ж1П", "6П1П", "ДГ-Ц8" (semi-conductor diodes), "АГ-Ц22" (diode).

The "XP-4П" is a portable radio station for simplex, bilateral radio-communications working on 42.5 - 46.0 megacycles. It consists of a transceiver-block, a d.c. current converter block, an antenna and a microphone with accessories. The trans-

Card 2/3

"XP-4" Type Radio Station

107-9-16/53

mitter can operate with AM as well as with FM modulation and the receiver is designed for the reception of AM signals.

The communication distance between two portable "XP-4" type radio-stations is 0.5 - 1.0 km, but may be enlarged up to 3.0 km by elevating the antenna to 3 m height.

The output power of the transmitter is 0.1 w on FM and AM, the frequency deviation is about 10 kilocycles with medium transmitting volume and a voltage of the storage battery having 2.3 v. In case of AM, the modulation factor for medium transmitting volume is about 50 %.

The sensitivity of the receiver is at least 6 microvolts, the proportion between the signal-level and the noise-level is 5 : 1 and the modulation factor 50 %.

The power supply of the radio station is furnished by an alkaline storage battery of "2XH-4" type. The circuit-diagram, shown in figure 2, gives constructional details. The radio-station contains the following tube types: "2X27" and "2X28". The weight of this station is about 3 kg. It operates with a 145 cm high rod antenna.

The article contains two figures.

AVAILABLE:
Card 3/3

Library of Congress

DMITRIYEV, V., tekhninspektor otdeleniya kinoprokata (Balashov).

~~Defects in reel boxes for 16 mm. films.~~

Defects in reel boxes for 16 mm. films. Kinomekhanik no.11:33 H '53.
(MIRA 6:11)

(Motion picture projection--Supplies)

DMITRIYEV, V., general-polkovnik tekhnicheskikh voysk

On steel trunk lines. Ty1. i snab. Sov. Vopr. Sil 21 no.6:38-41
Je '61. (MIRA 14:8)
(World War, 1939-1945--Transportation)

DMITRIYEV, V.

"Kristall" camera. Sov.foto 27 no.10:25 0 '61.
(Camera)

(MIRA 14:10)

DMITRIYEV, V.; POPKOV, M.

The products are the same but prices are different. Mest.prom.i
khud.promys. 3 no.4:10-11 Ap '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy institut igrushki, g. Zagorsk.
(Toy industry--Prices)

DMITRIYEV, V.

Favorable and negative aspects of the over-all mechanization. Sov.
shakht. 11 no. 36-8 Je '62. (MIRA 15:6)
(Coal mines and mining) (Coal mining machinery)

DMITRIYEV, V., starshiy inzh.; BERG, M., starshiy inzh.

Seagoing passenger liner with accomodations for 750 people.
Mor.flot 22 no.1:31-32 Ja '62. (MIRA 15:1)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta.
(Merchant ships--Passenger accomodations)

KOCHETKOV, Nikolay Konstantinovich; DMITRIYEV, V. A.

"New route to higher sugars."

Report to be submitted for the 3rd Intl. Symposium on the Chemistry
of Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

NAUMOV, V.V., kand.ekon.nauk; DMITRIYEV, V.A., inzh.-ekonomist; KOZLOV,
A.I., kand.ekon.nauk; GORSHKOV, I.I., inzh.-ekonomist

Economic efficiency of the use of ammonia base in the production
of sulfite pulp. Bum.prom. 33 no.11:25-26 N '58.(MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy
i bumazhnoy promyshlennosti (for Naumov, Dmitriyev). 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-
spirtovoy promyshlennosti (for Kozlov, Gorshkov).
(Woodpulp) (Ammonia)

DMITRIYEV, V A

Effektivnost' elektricheskoy i teplovoznoy tyagi na zheleznodorozhnom trans-
porte /by/ A.P.Mikheyev, Ya. V. Shukstal' i V.A. Dmitriyev. Moskva, Gosplaniz-
dat, 1960.

302 p. Graphs, Tables.

On file: Akademiya Nauk SSSR. Institut Kompleksnykh Transportnykh Problem.